

Berwyn Heights Tree Plan 2016

Actionable Tree Intelligence



Components

- Tree inventory
- Tree canopy assessment
- Urban Forest Management Plan

Berwyn Heights Tree Inventory

Results

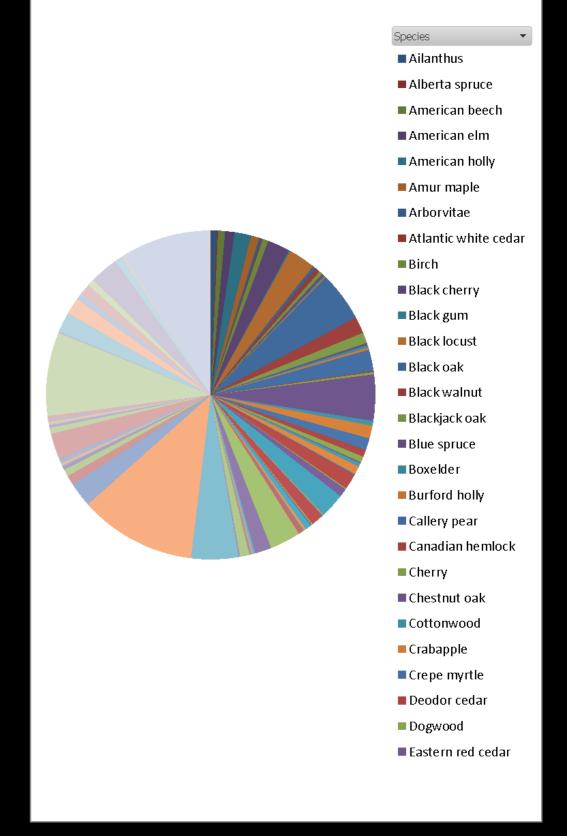
Data variables

```
Tree # - Size — Species — Stems under 1 foot -
Condition — Primary maintenance -
Failure — Impact — Failure and Impact — Consequences —
Risk -
Observations — Further inspection -
Hardscape damage 1 inch or more -
Utilities — Growing space -
Other notes - Location
```

Sustainability - Diversity

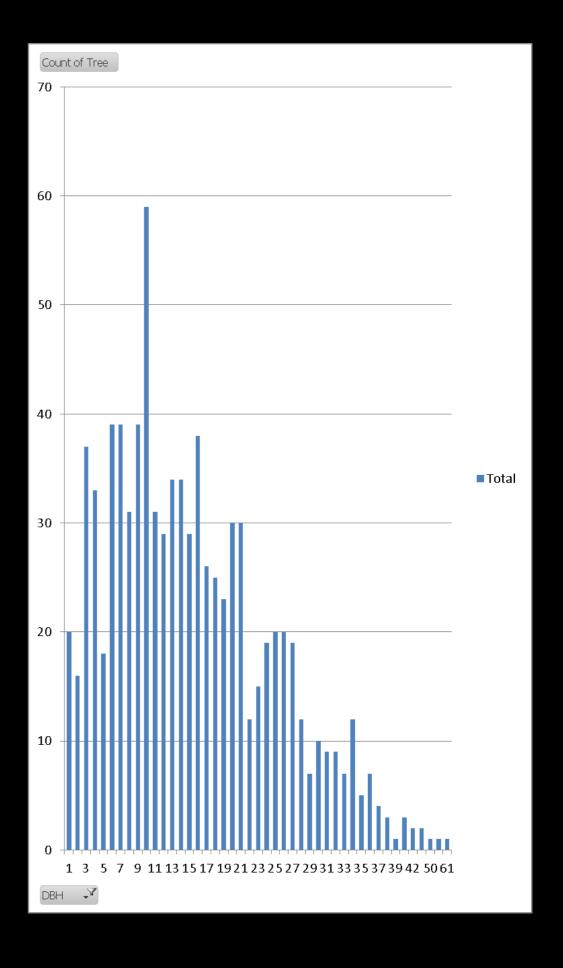
- Population is extremely diverse
 - Diversity = resilience
- Most common tree, red maple, makes up 11% of population

Count of Tree



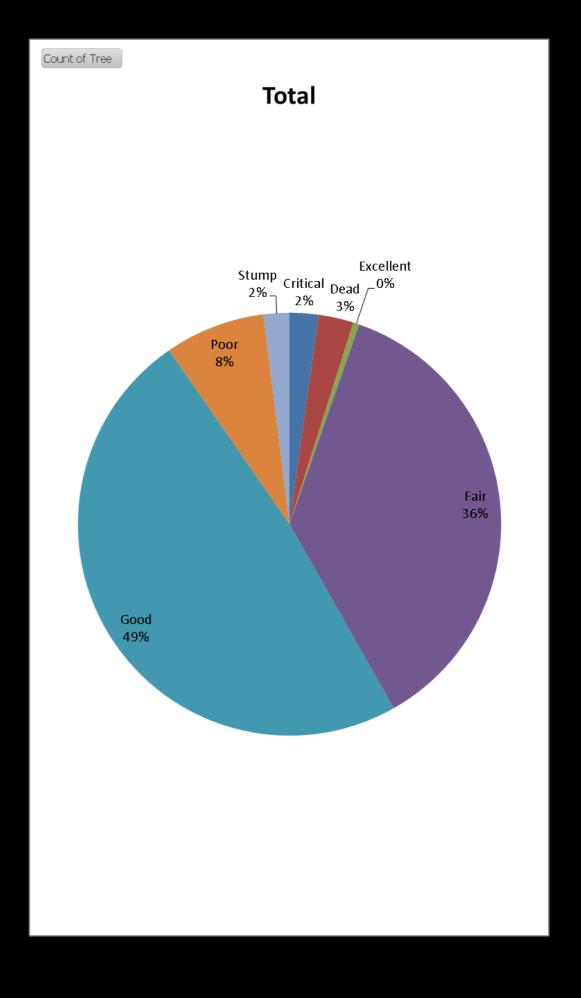
Sustainabilityage

- Size used as proxy for age
- Ideal = "Reverse J", with many younger trees and fewer older ones
- This population follows that well



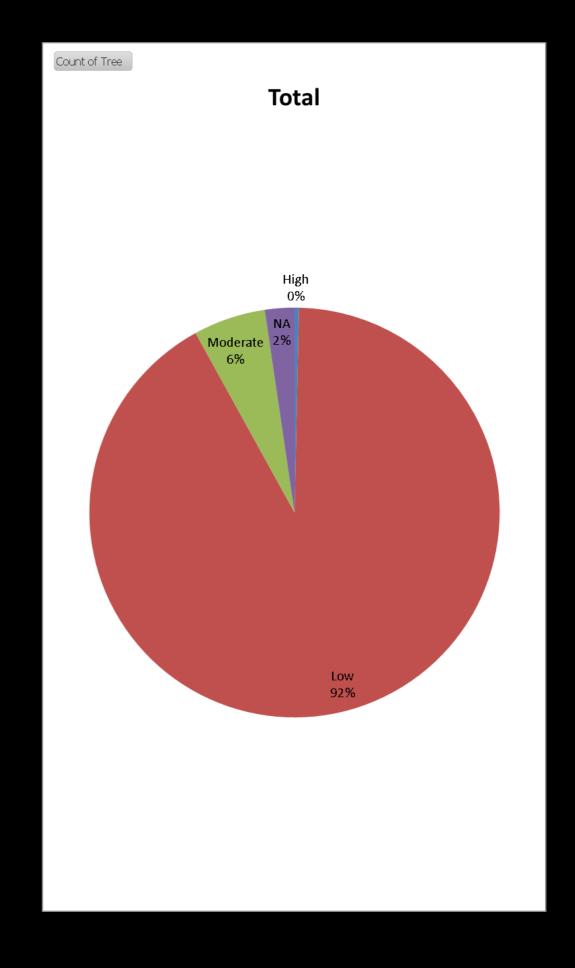
Condition

- 85% in Fair or better condition
- 5% Dead or Critical



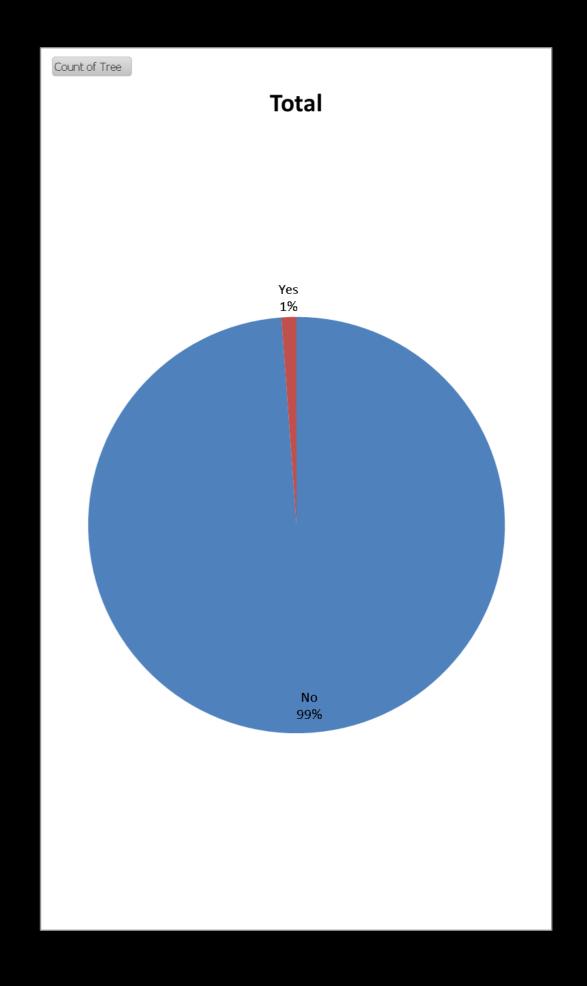
Risk

- High risk: 0% / 3 trees



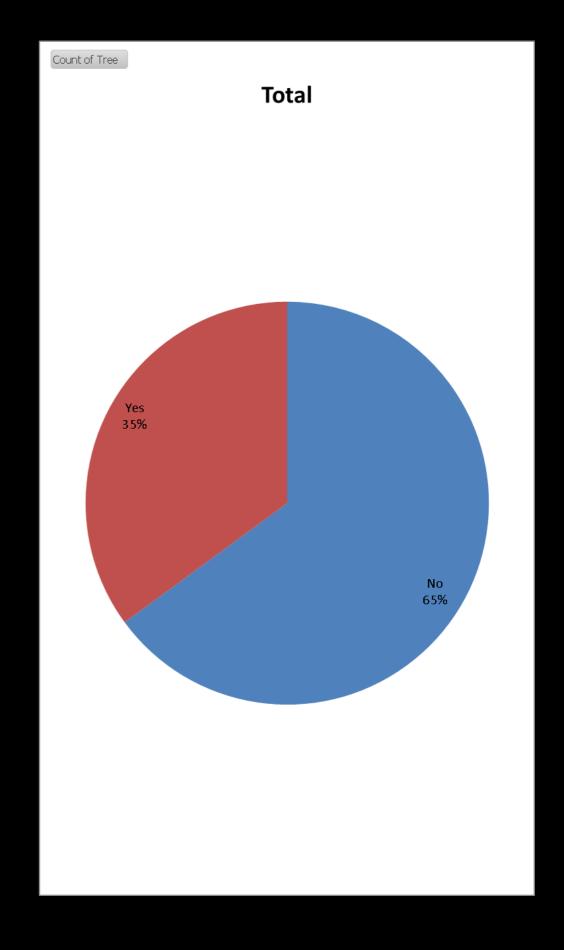
Hardscape damage

- Very low occurrence
 - 1% / 10 trees



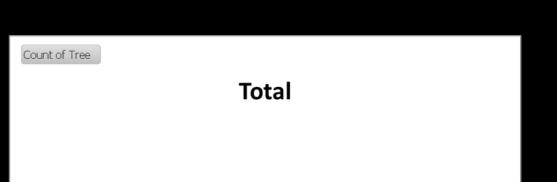
Overhead utilities

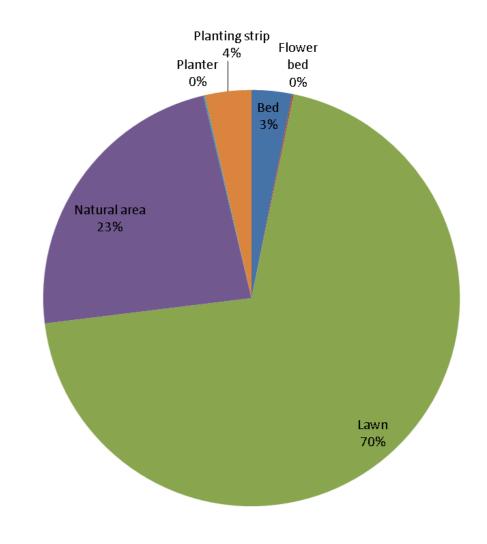
- The majority of public trees are not growing beneath overhead utility lines



Growing space

- Most in lawns and natural areas
 - Reflects "tenants-incommon" status of most trees





Summary - trees

- 861 trees inventoried (street and public property)
- Population is resilient (age & diversity)
- Though the maintenance program is not extensive, most trees are in average condition and very few pose significant risk.
- However, 24% need crown cleaning and 14% are recommended for removal
- Overall = good!

Summary - infrastructure

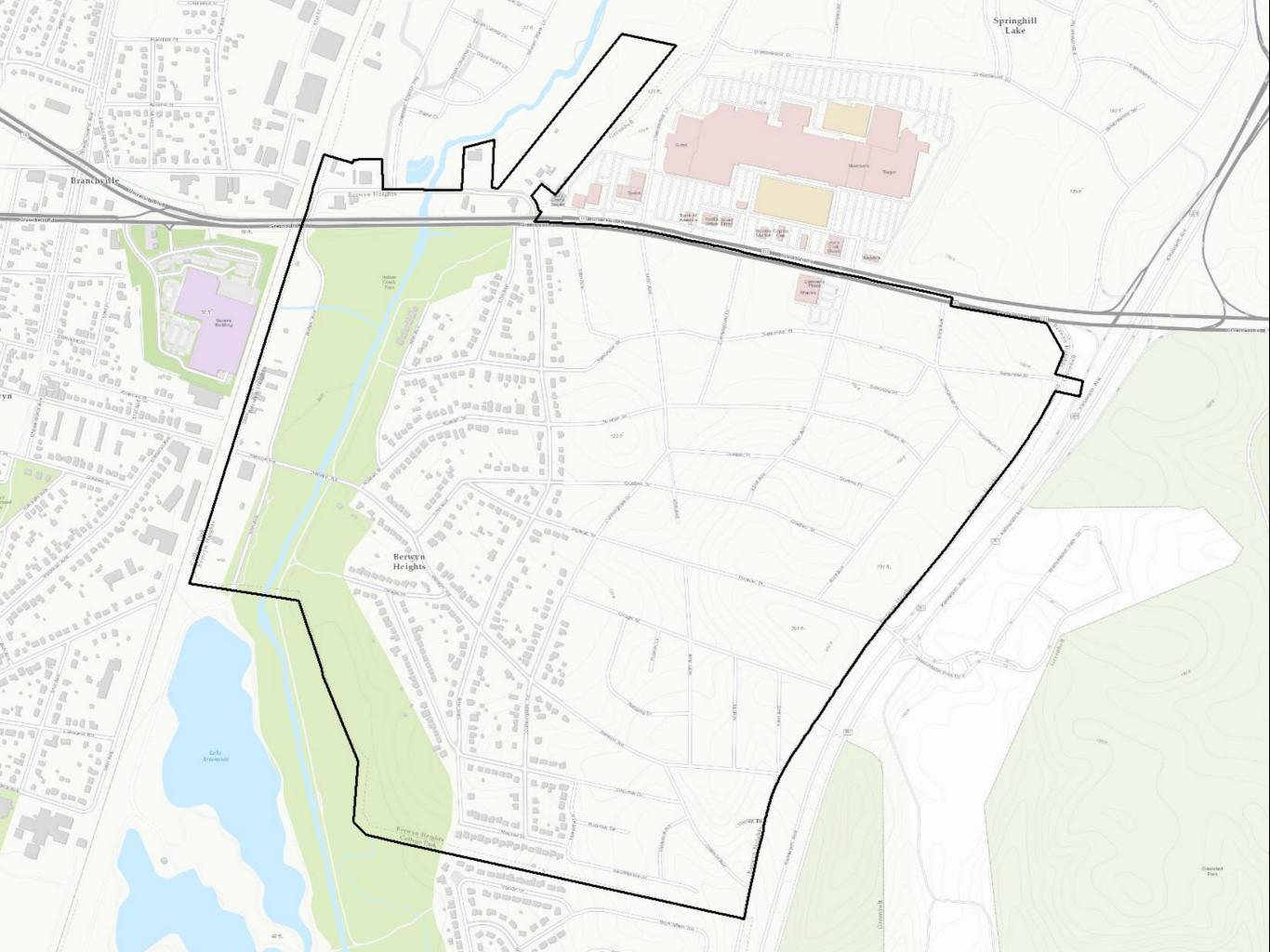
- Public trees in Berwyn Heights cause almost no hardscape damage
- Most trees do not have OHW, though over a third do
- Most trees are in lawns and natural areas as most are on the property line rather than by the curb

Berwyn Heights Urban Tree Canopy Assessment

Mike Galvin & Jarlath O'Neil-Dunne



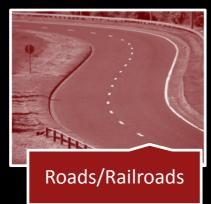
Study Area



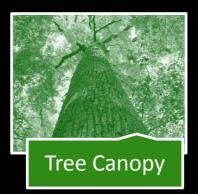
Land Cover Mapping

Data > Information





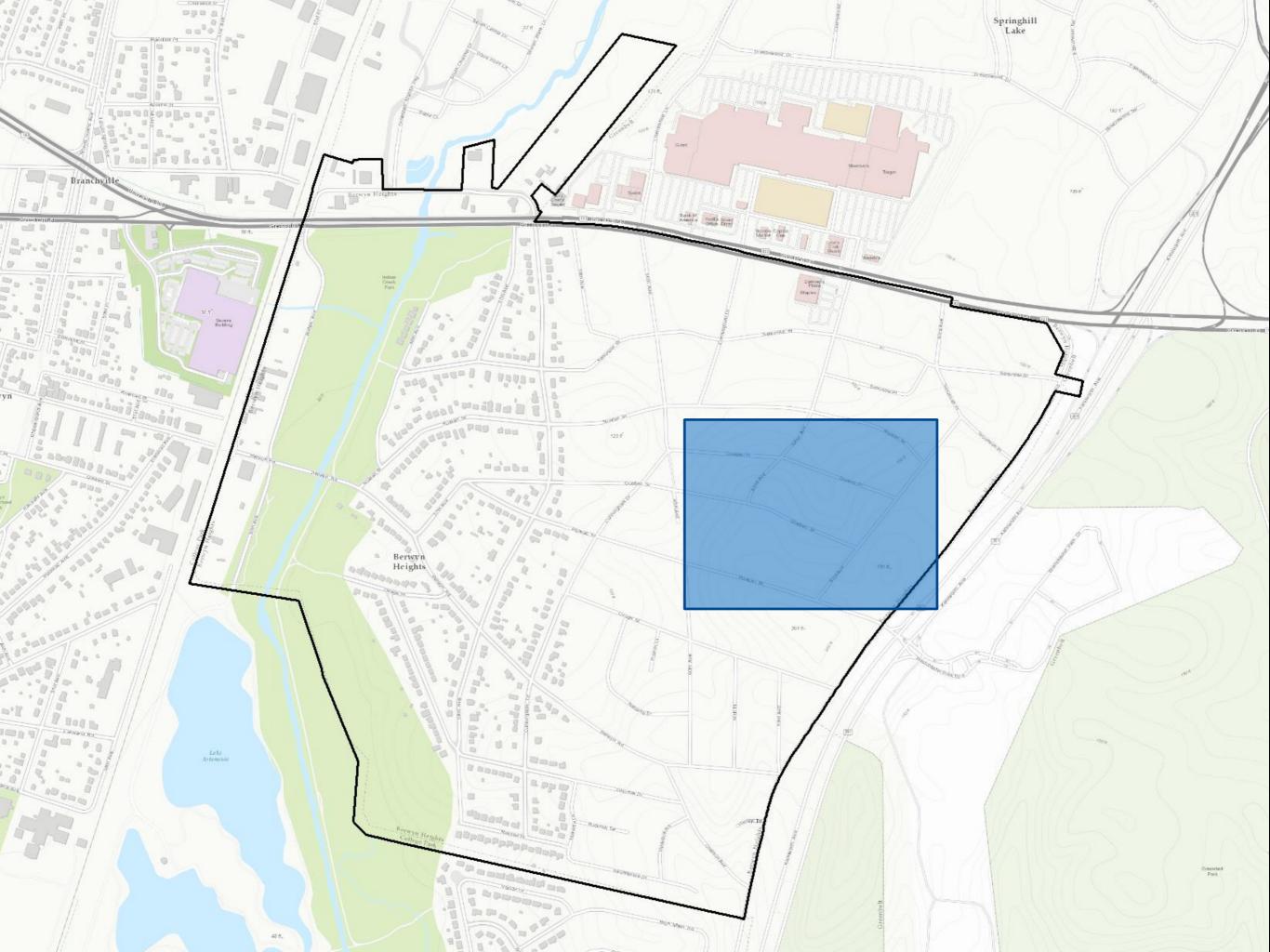




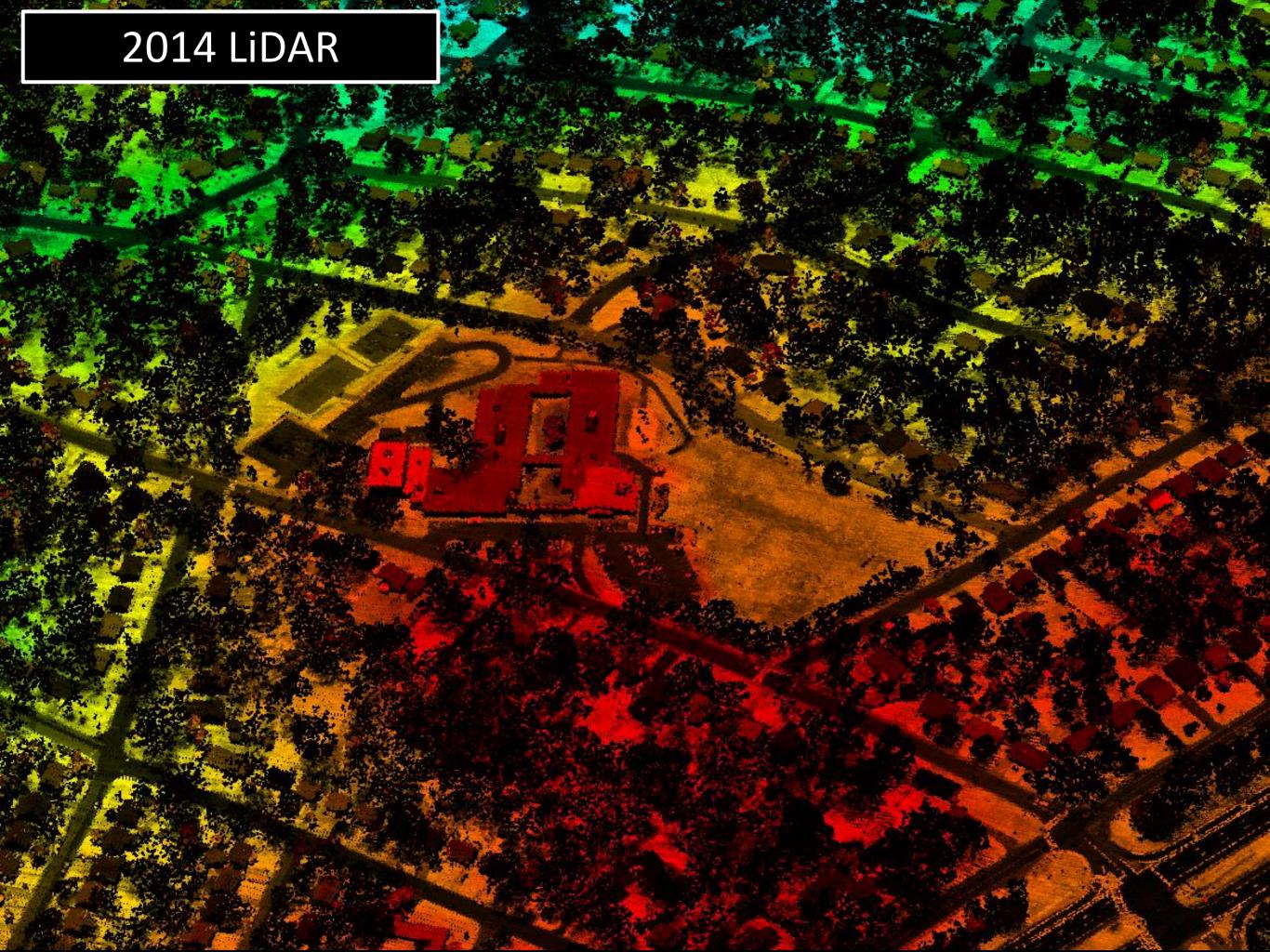




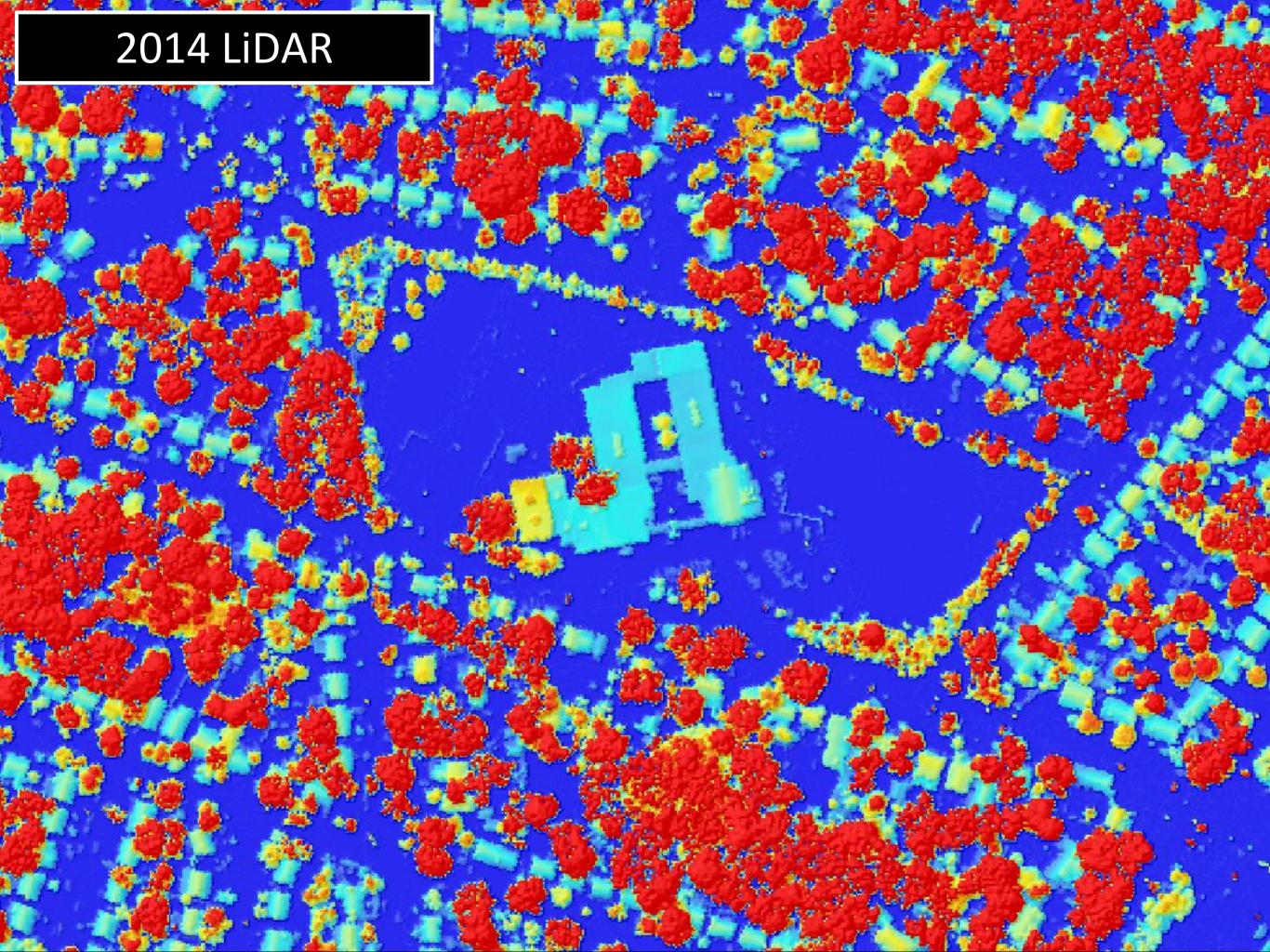












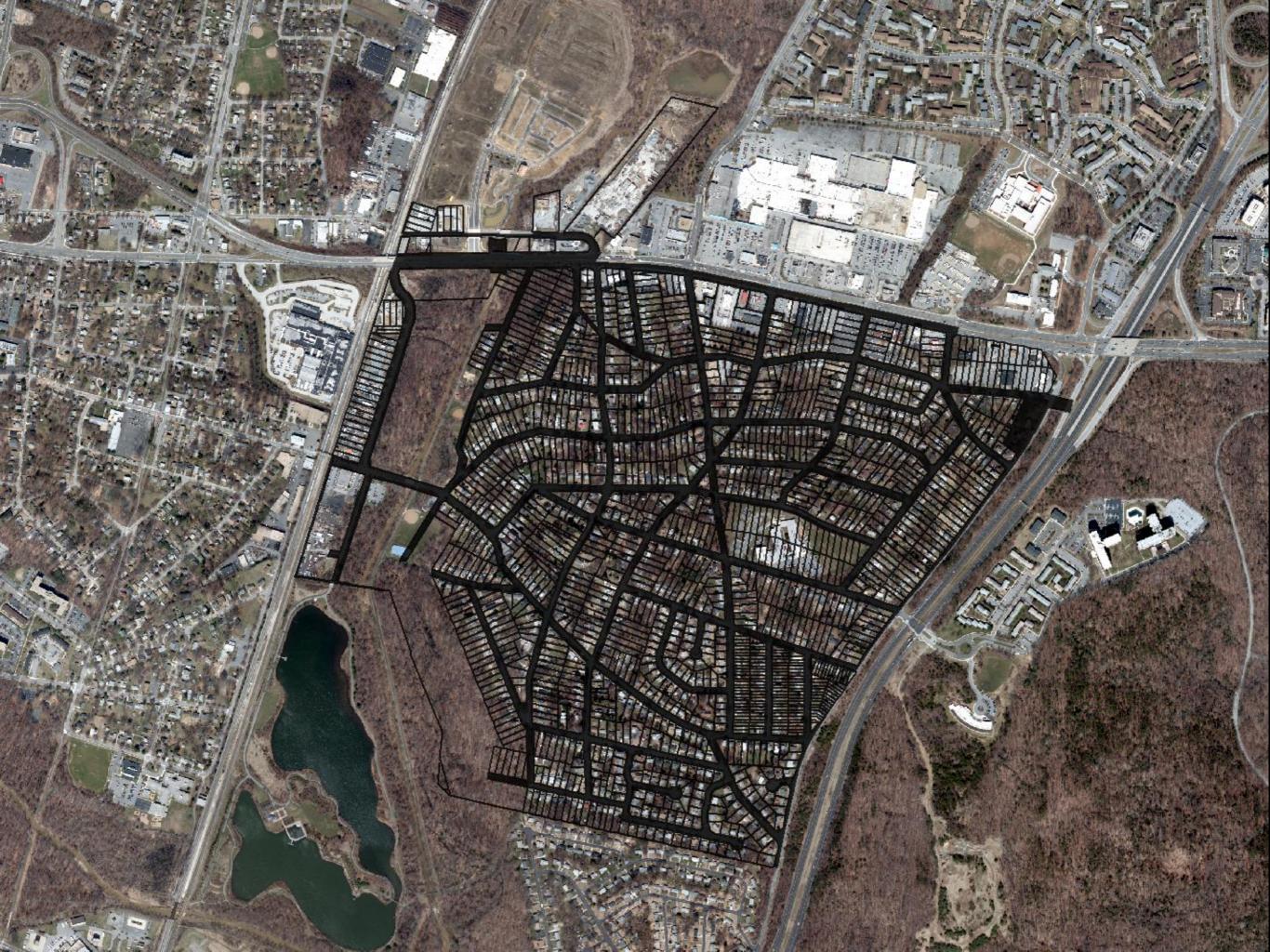


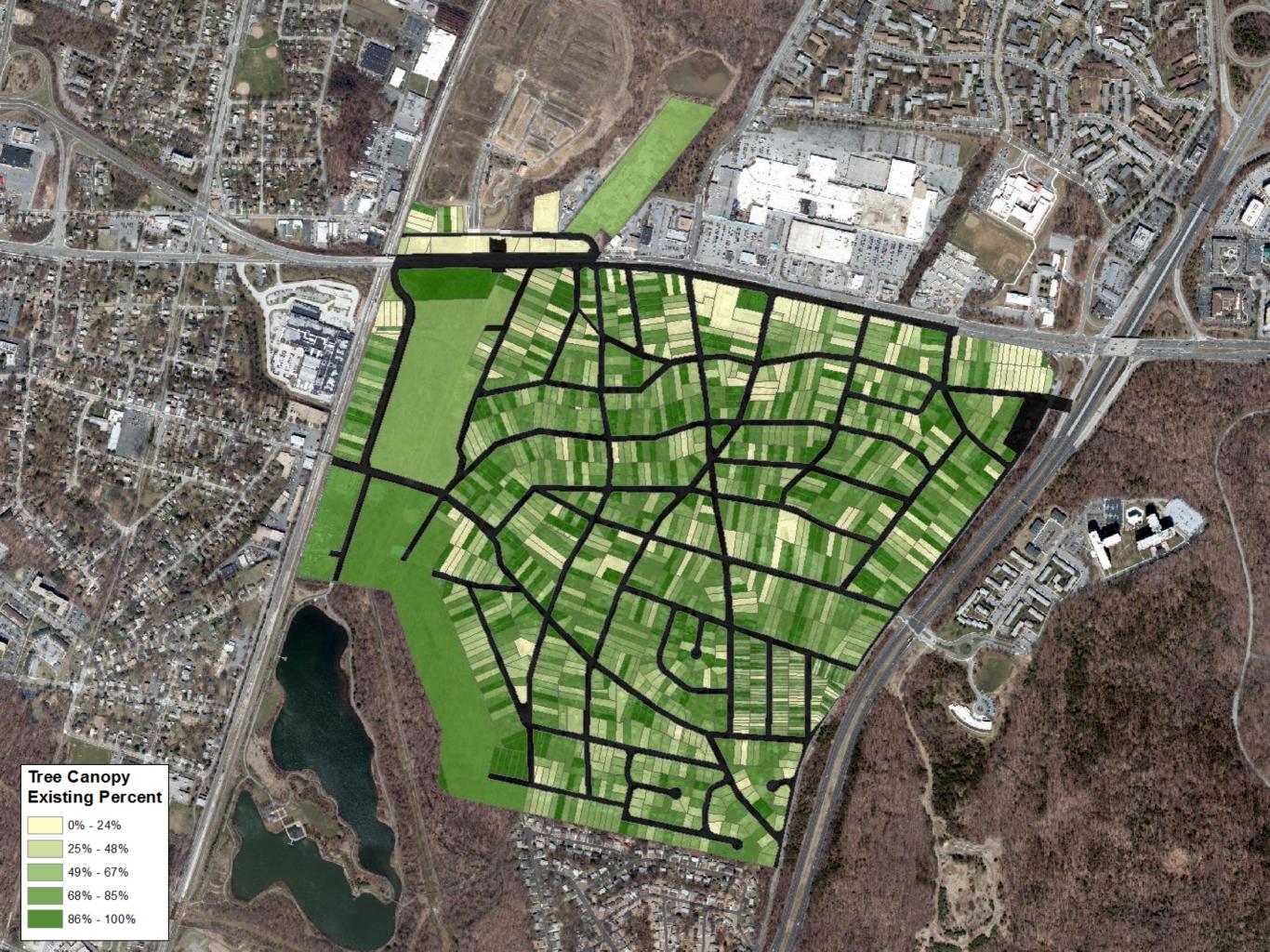
Tree Canopy Metrics

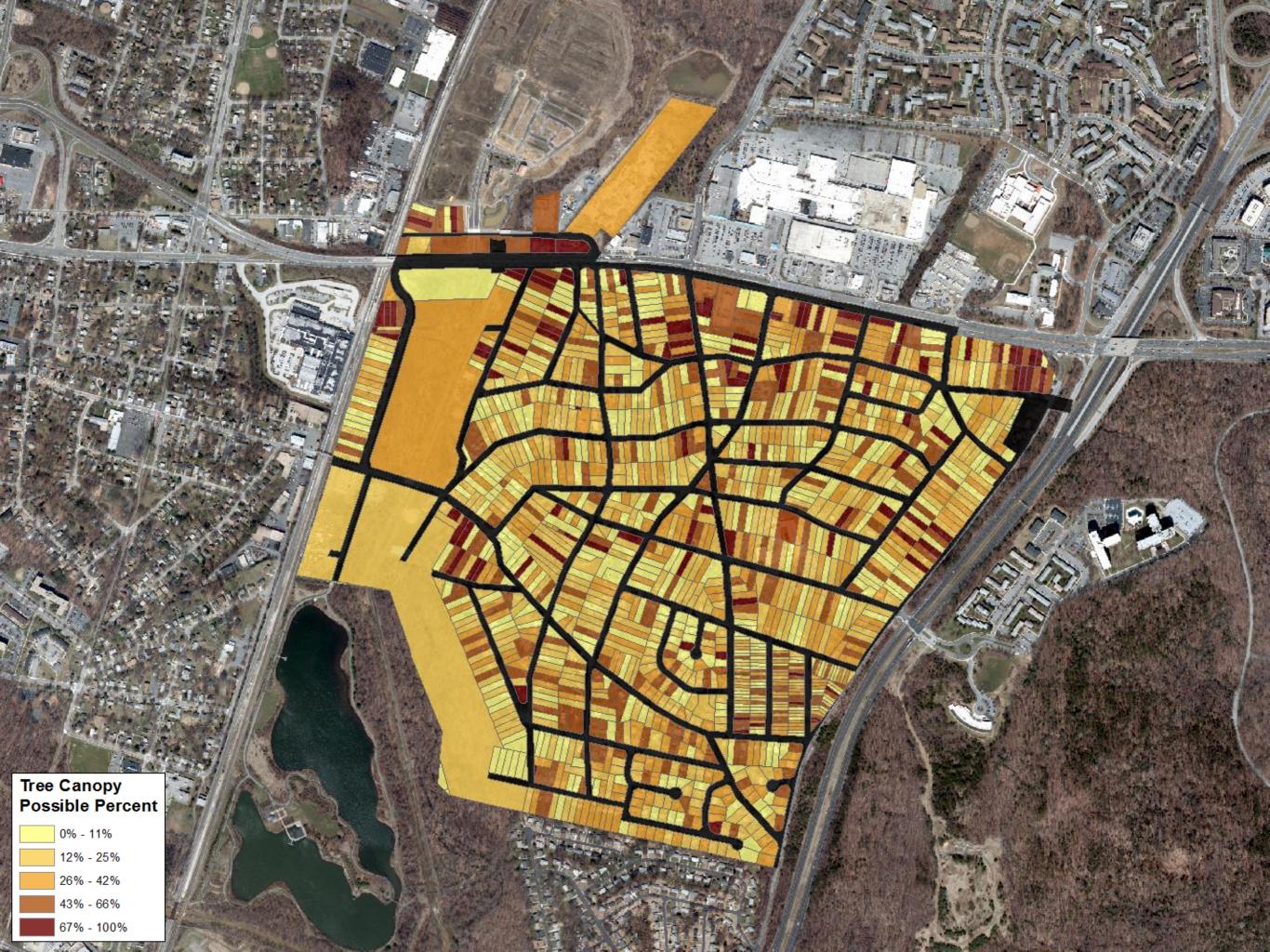
100%	15%	
90%-	Not Suitable %	
80%-	11% Possible Tree Canopy - Impervious %	
70%-	15% Possible Tree Canopy - Vegetation %	
60%-		
50%-		
40%-		
30%-	58% Existing Tree Canopy %	
20%-		
10%-		
0%		

Parcels

Tree Canopy Metrics

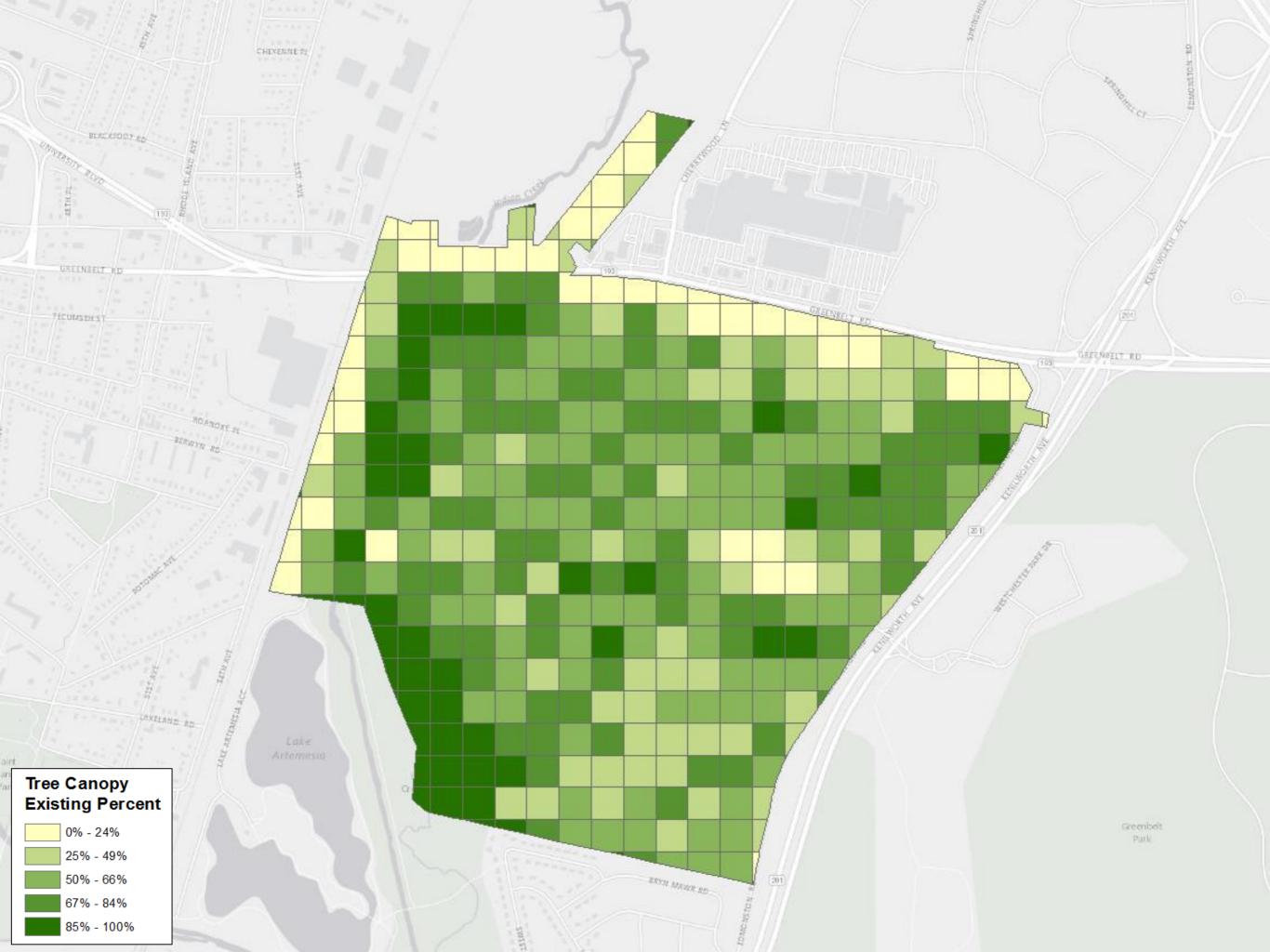


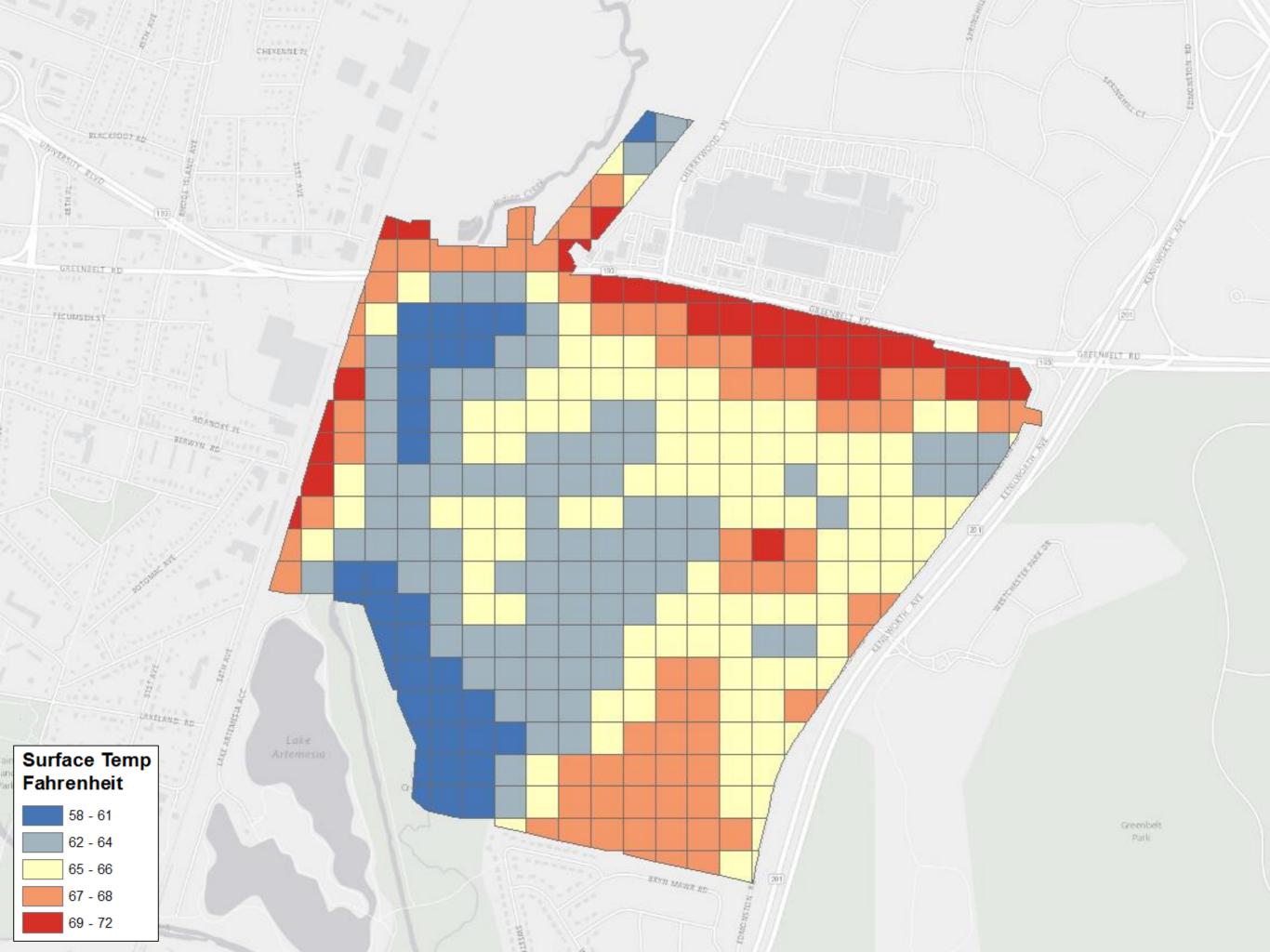


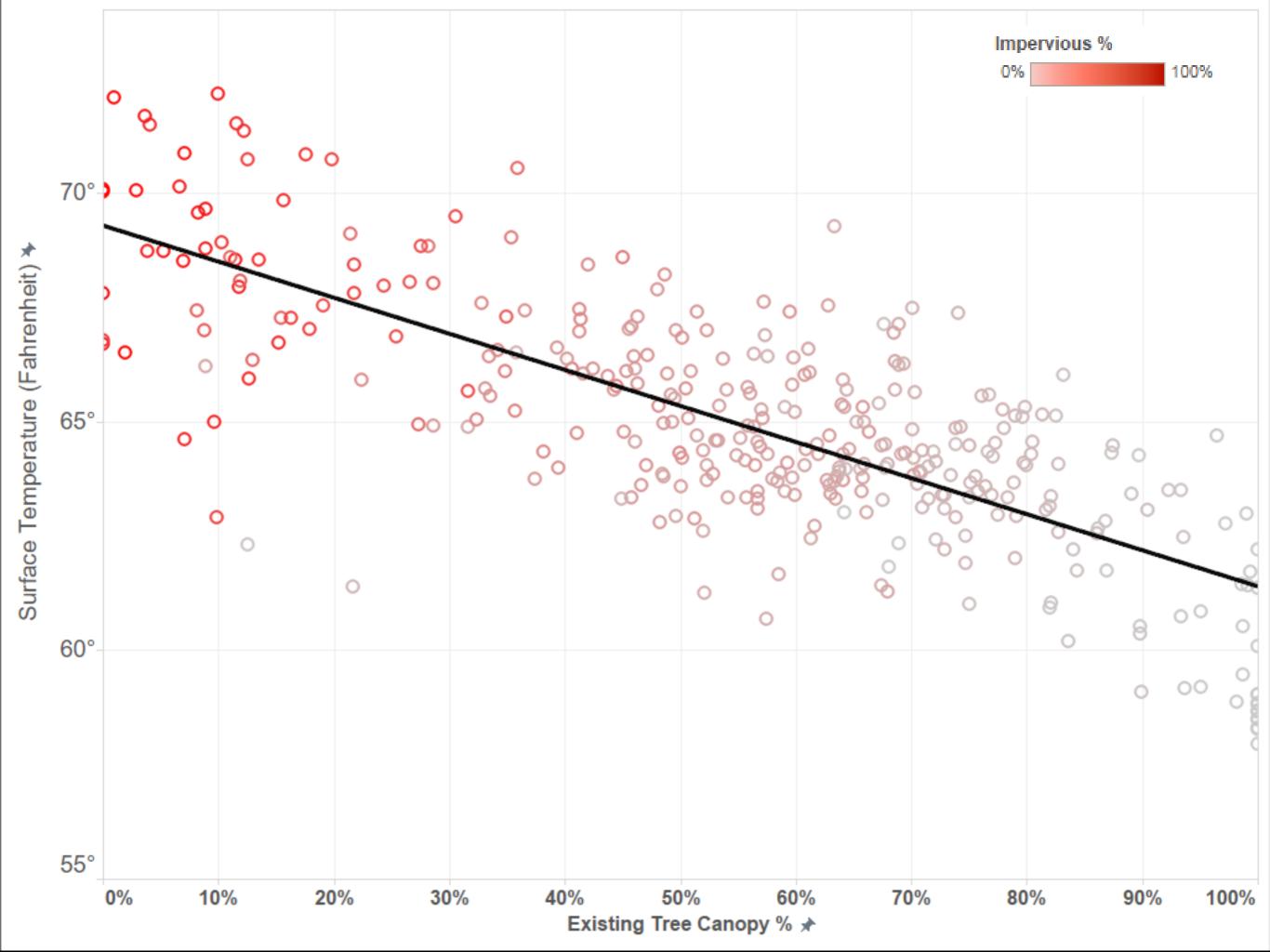


Surface Temperature

Tree Canopy Metrics







Summary

Present tree canopy very high

Berwyn Heights Tree Benefits Report

https://landscape.itreetools.org/report/a411086c-b791-4e2b-8e91-fdecb636655d/berwyn-heights

Priorities

- 1. Short Term
 - 1. Make a decision on disposition of the Shade Tree Board
 - 2. Map public trees
 - 3. Use the map to develop a tree and risk management plan
- 2. Longer term
 - 1. Set a tree canopy goal
 - 2. Monitor canopy and public trees on a periodic basis



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